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FIGURE 1

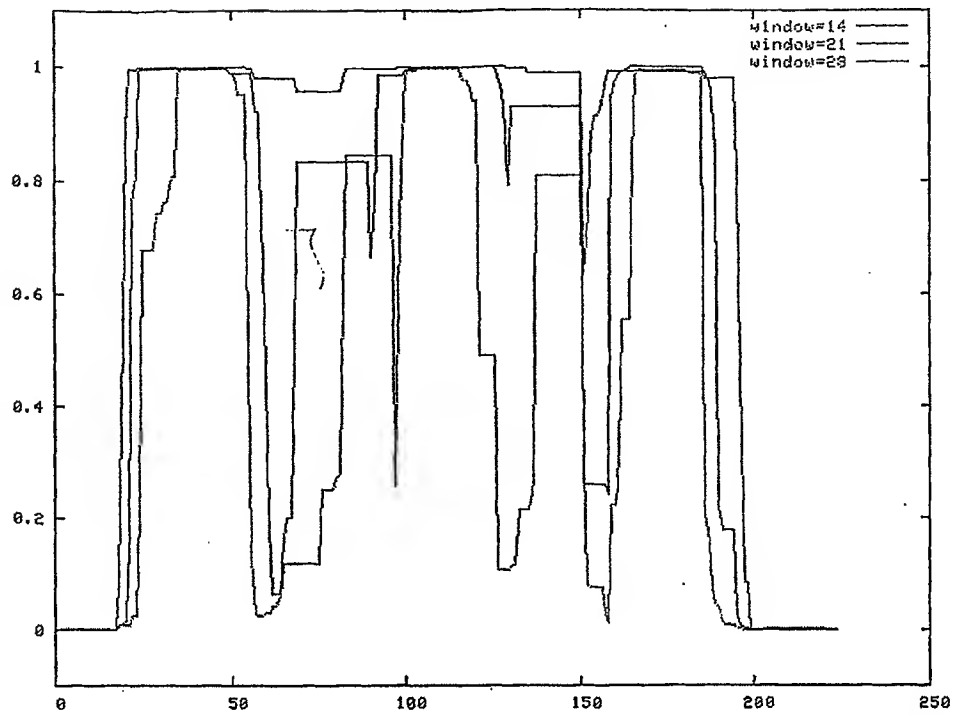
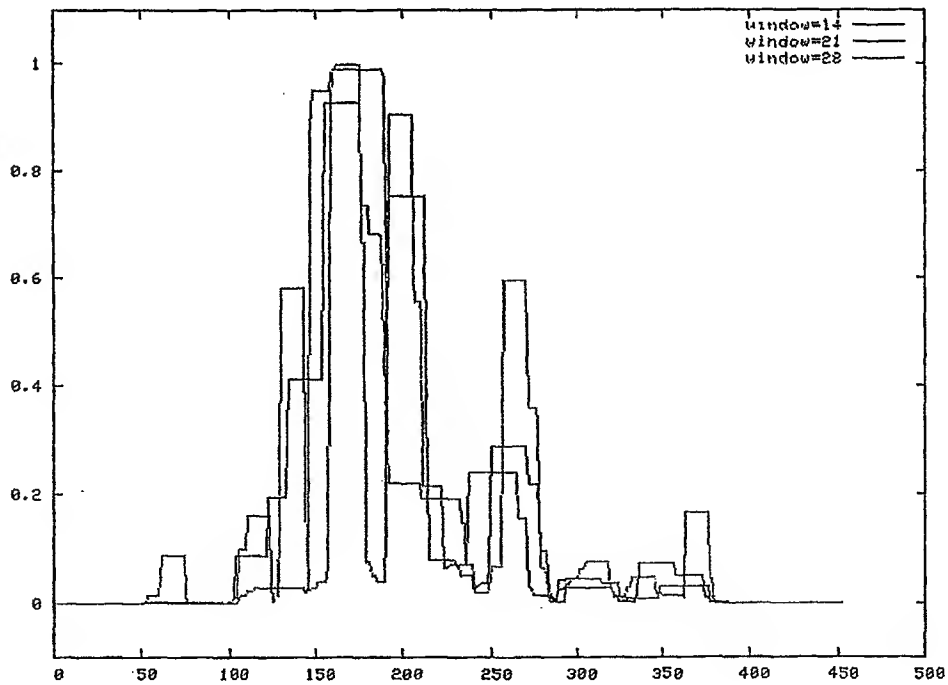


FIGURE 2



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FIGURE 3

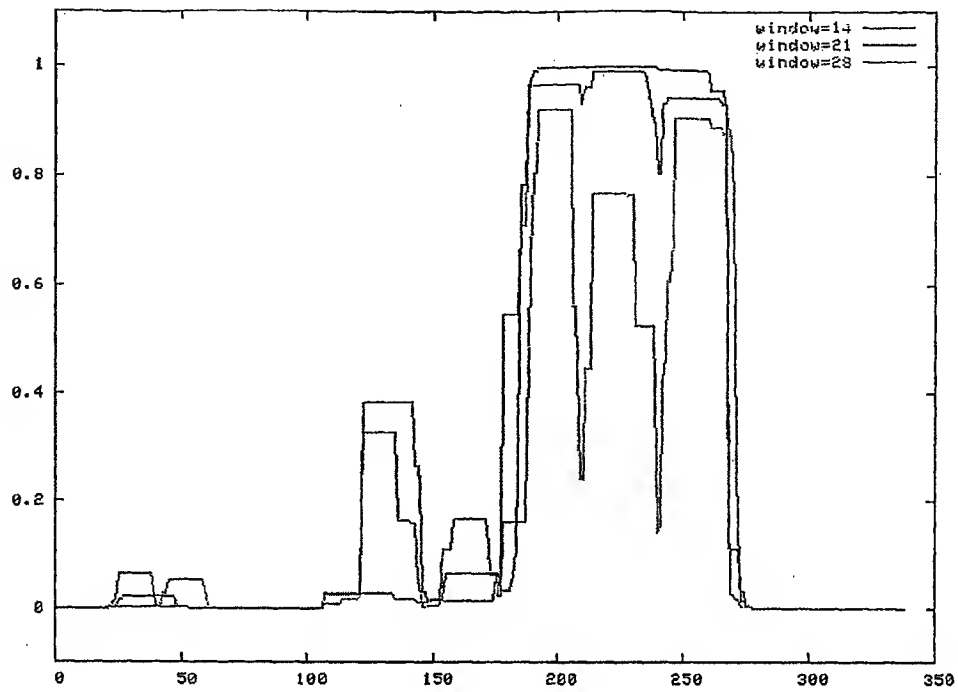
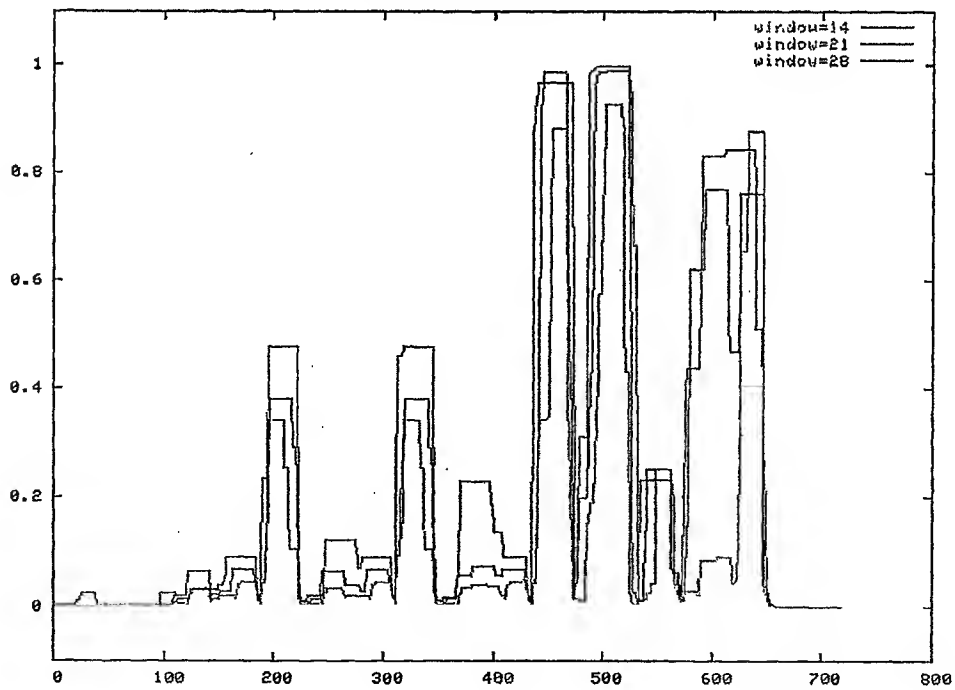


FIGURE 4



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FIGURE 5

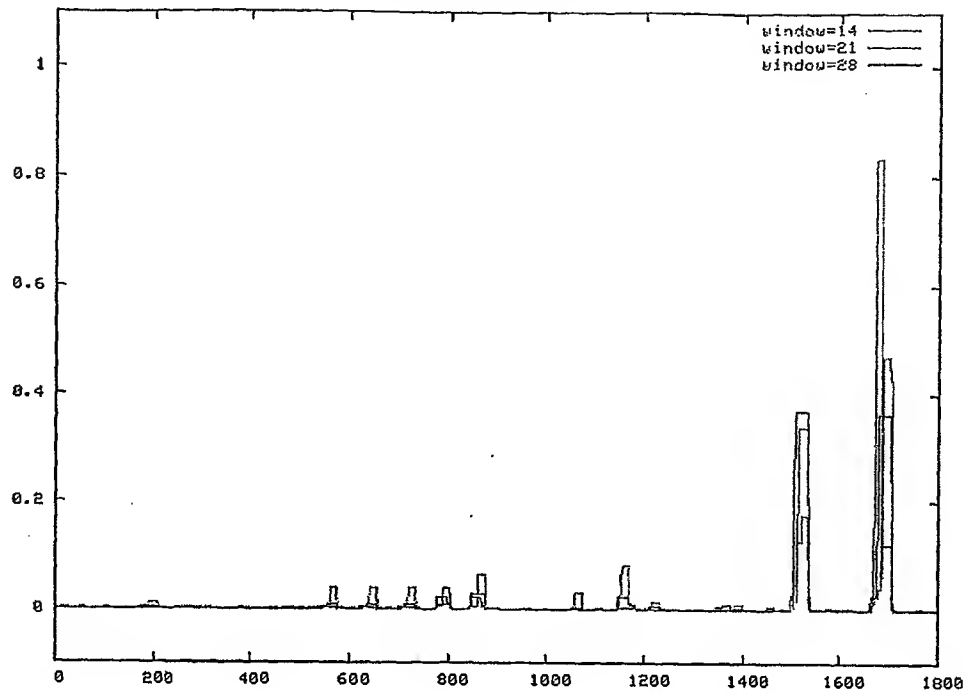
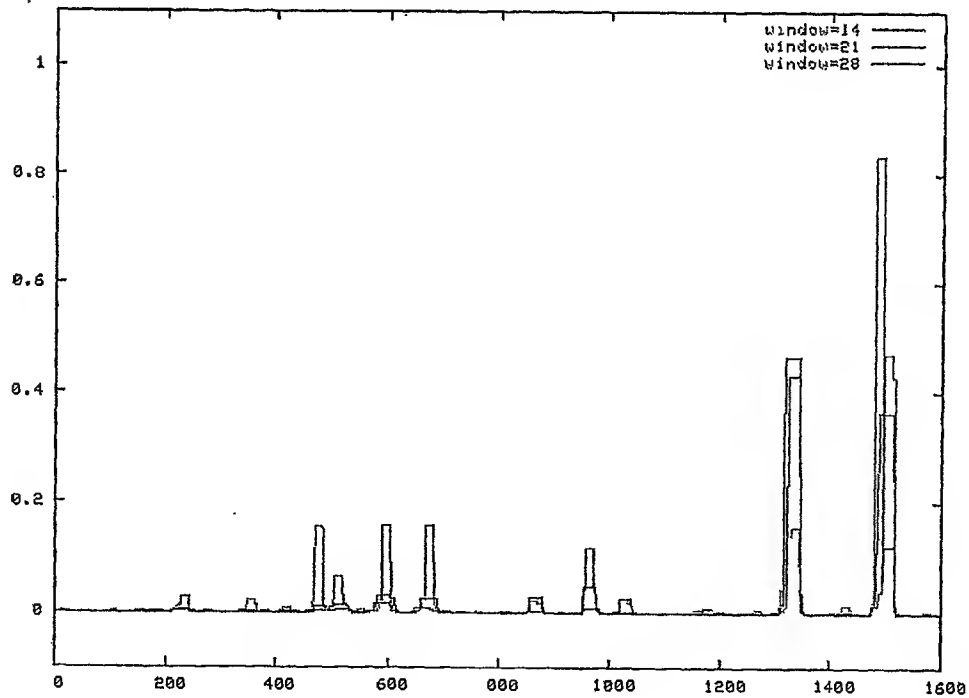
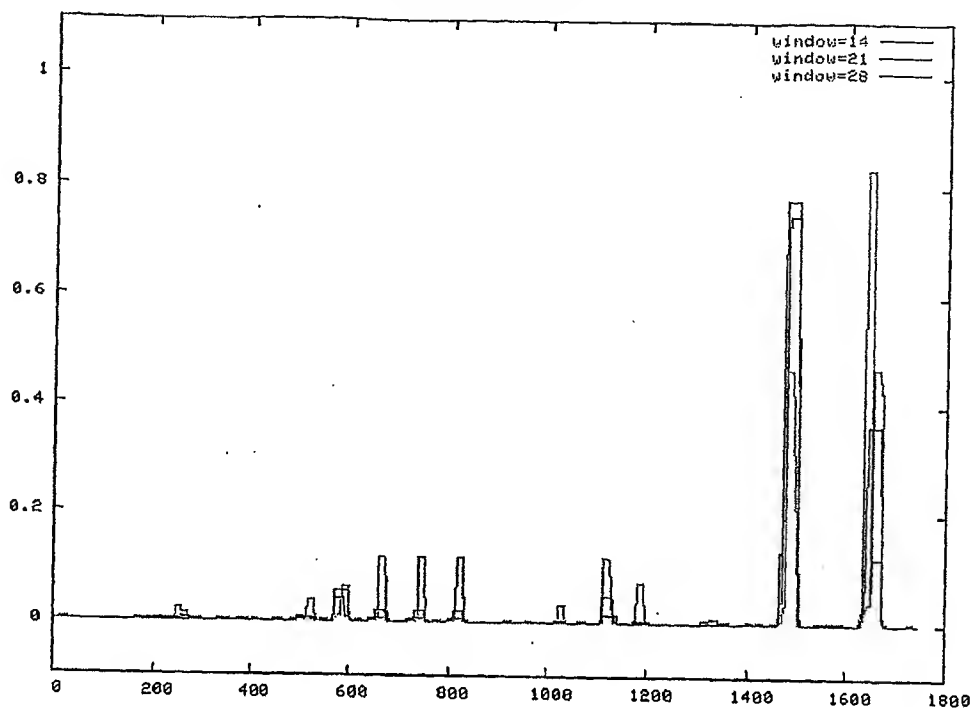
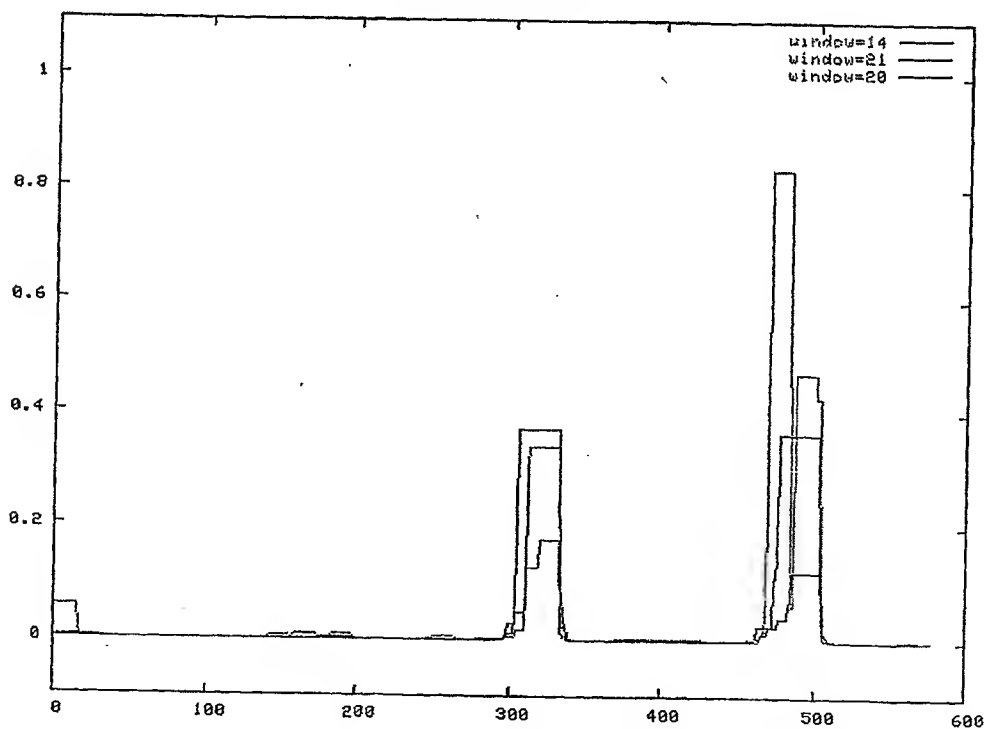


FIGURE 6



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FIGURE 7**FIGURE 8**

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FIGURE 9

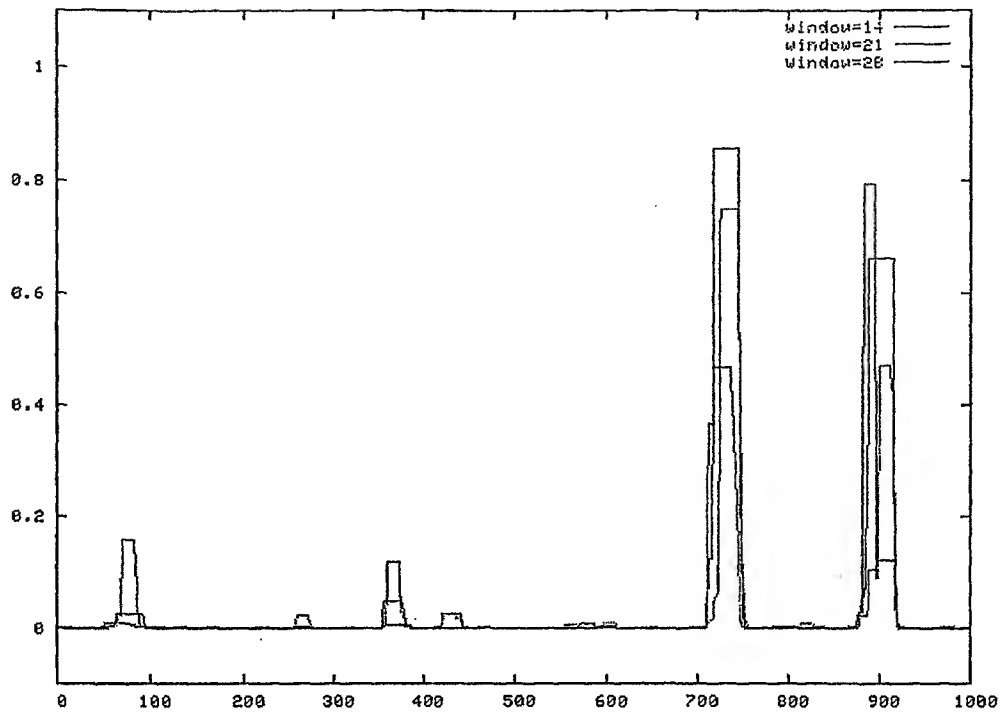
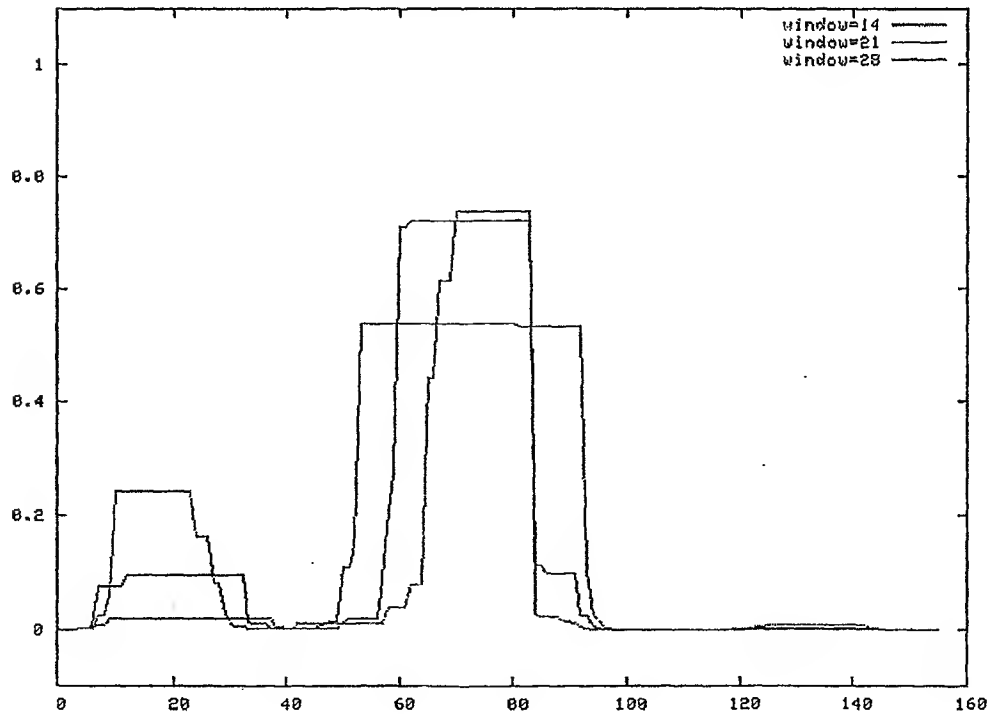


FIGURE 10



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FIGURE 11

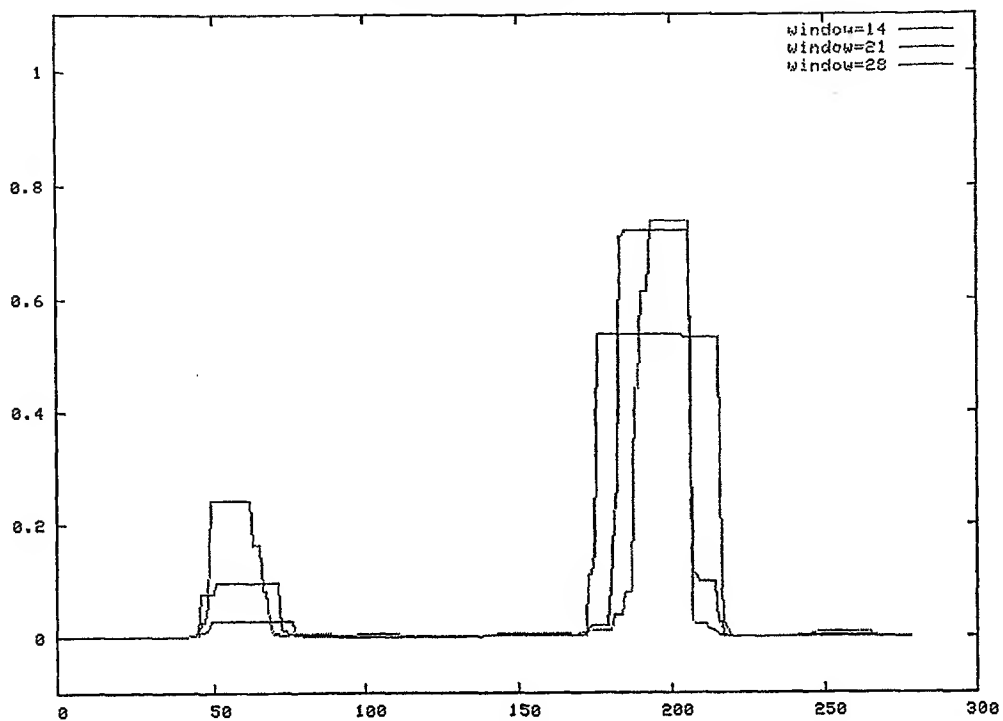
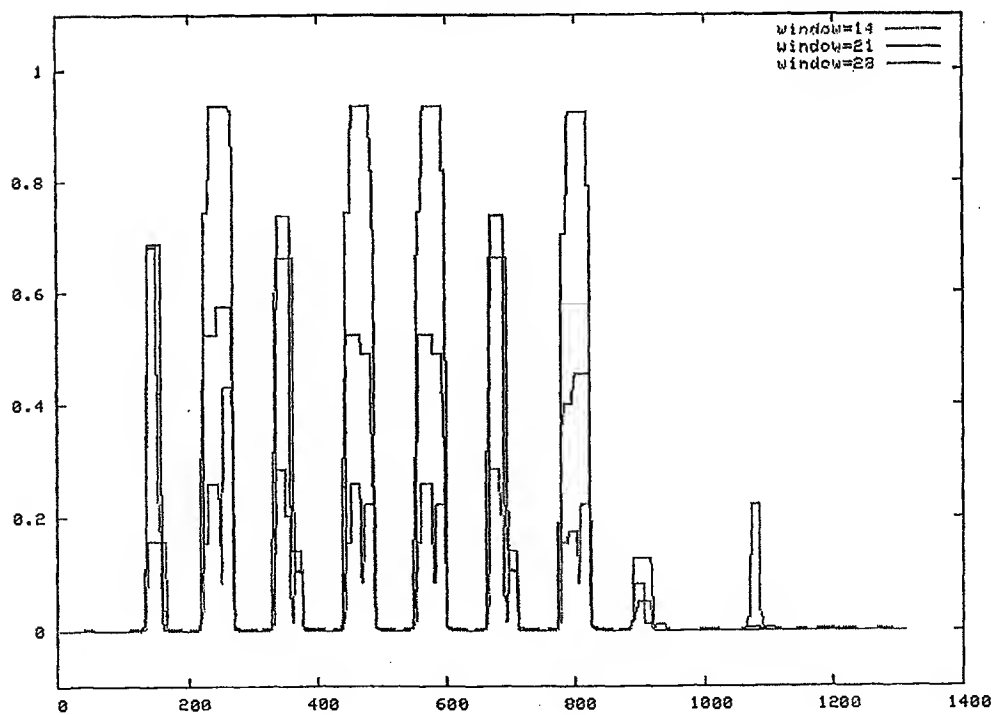


FIGURE 12



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FIGURE 13

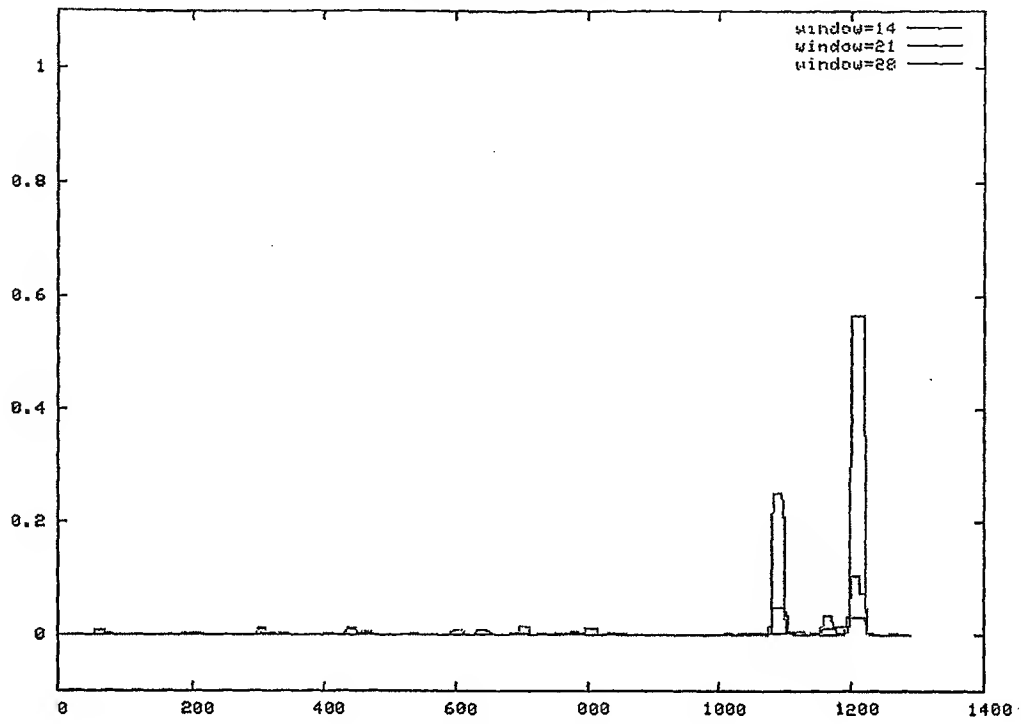
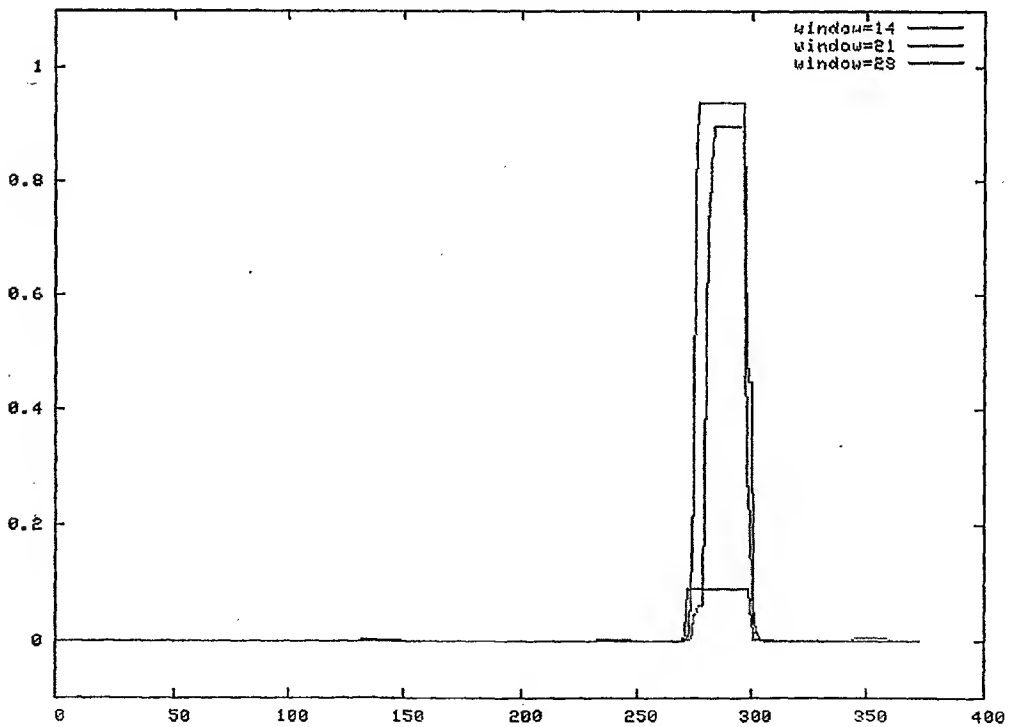
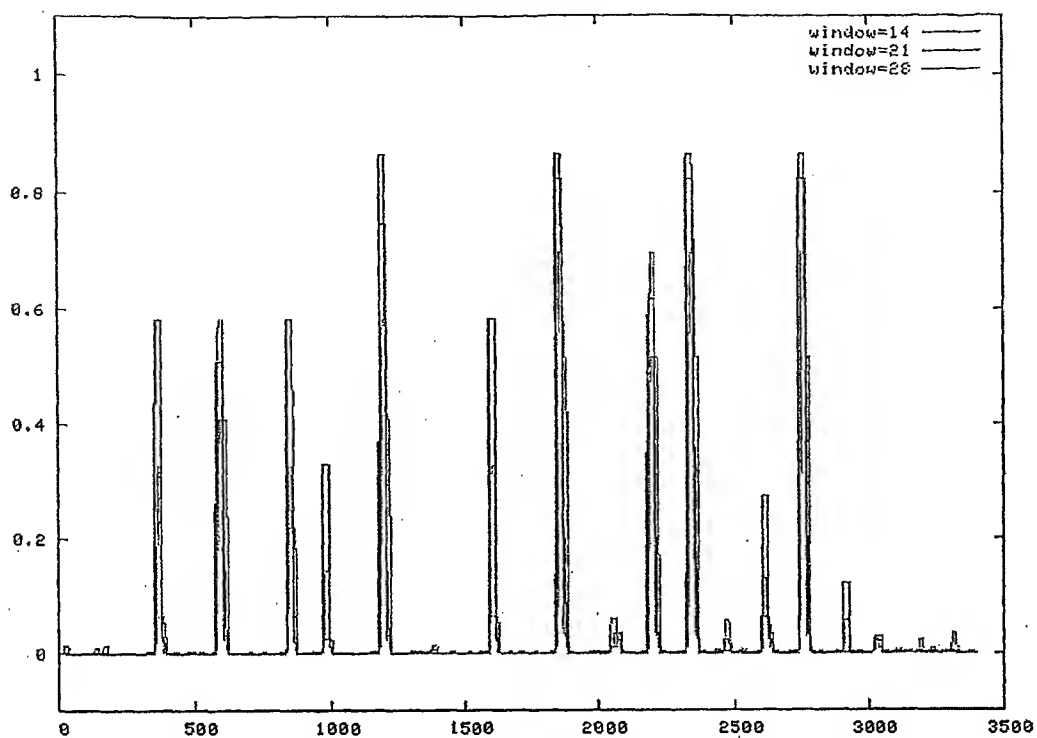


FIGURE 14



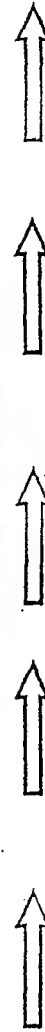
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FIGURE 15

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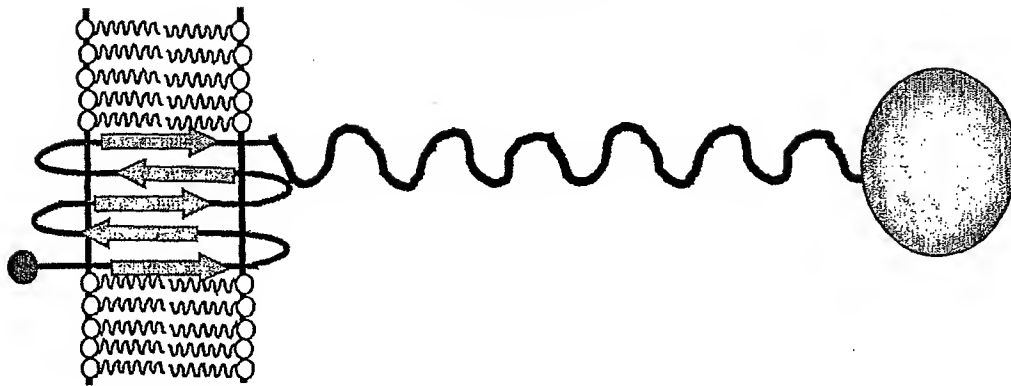
FIGURE 16

BECK1	ACTSAIAIATASQPQVKTGDMVAVSAGAGTNGESAVSUS--FNAGTHTVLKATISADTQSDFGAGVGVGYSE-	SEQ	ID NO:66
EHEC	ACTSAIAIATASQPQVKTGDMVAVSAGAGTNGESAVSUS--FNAGTHTVLKATISADTQSDFGAGVGVGYSE-	SEQ	ID NO:67
EHEC	ACTSAIAIATASQPQVKTGDLVAVSAGAGTNGESAVSUS--FNAGTHTVLKATISADTQSDFGAGVGVGYSE-	SEQ	ID NO:68
EAEC	ACTSAIAIATASQPQVKAGDGLVAVSAGAGTNGESAVSUS--FNAGTHTVLKATISADTQSDFGAGVGVGYSE-	SEQ	ID NO:69
HAESO	ACTSAIAIATASQPQSTAFKSLVSTGVCHHKGQSTAIENSS--MSSNGKMWKGGVSYDQKHATFGGSGVGFEN	SEQ	ID NO:70
RALSO	SEIENATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:71
BURFO	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:72
SAA	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:73
UPEC	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:74
SHIFL	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:75
KADA	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:76
HADA	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:77
ACTAC	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:78
EIBC	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:79
EIBD	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:80
EIBF	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:81
EIEA	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:82
EIBE	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:83
USPA2	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:84
YADA	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:85
DSRA	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:86
BRUNE	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:87
BRUSU	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:88
BRUME2	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:89
BRUSU2	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:90
SINME	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:91
BRAJA	ACTAATATATVTPDQKSTAGGSGATKGYQAVALESA-RISHN-LKAVAGVGYSE-ETVNGEMASQ--Q	SEQ	ID NO:92



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FIGURE 17



ANCHOR

STALK

HEAD

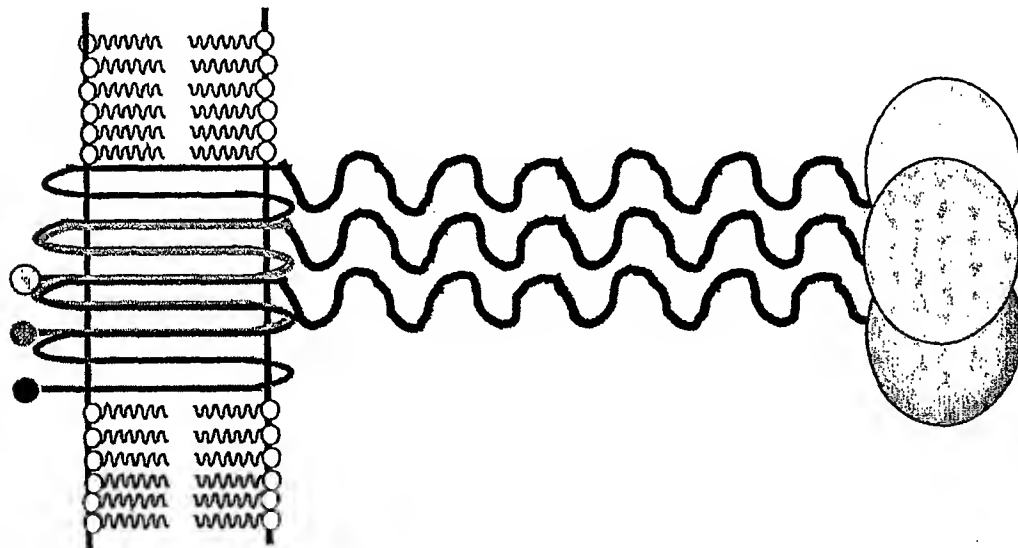
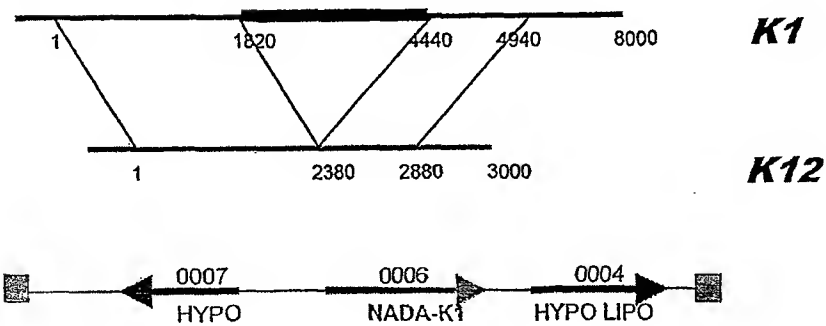
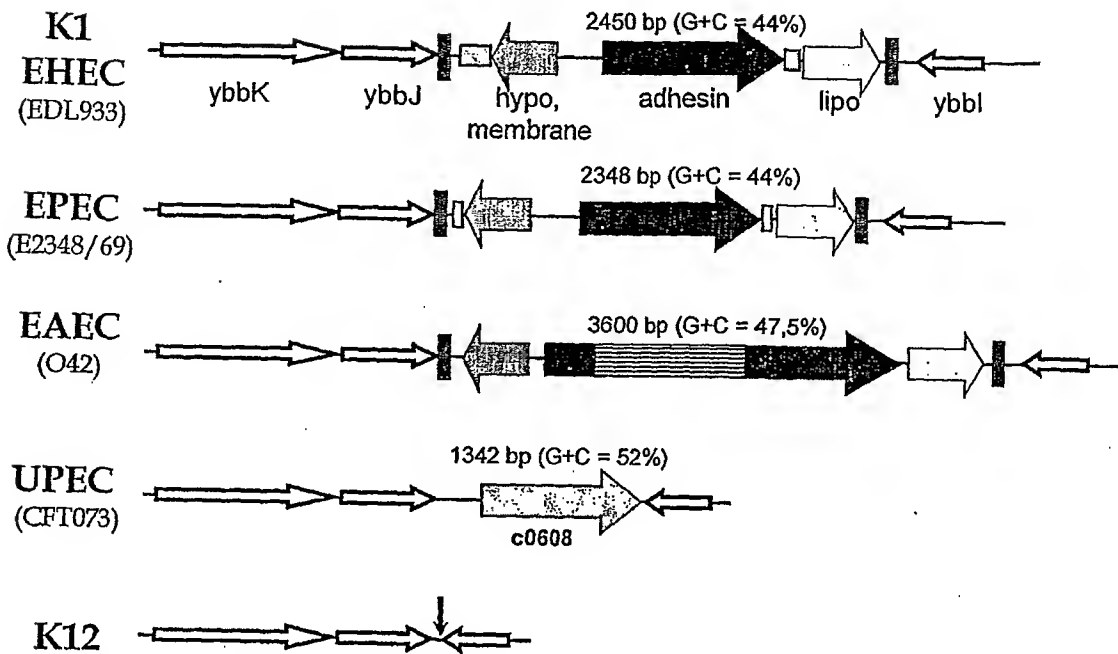
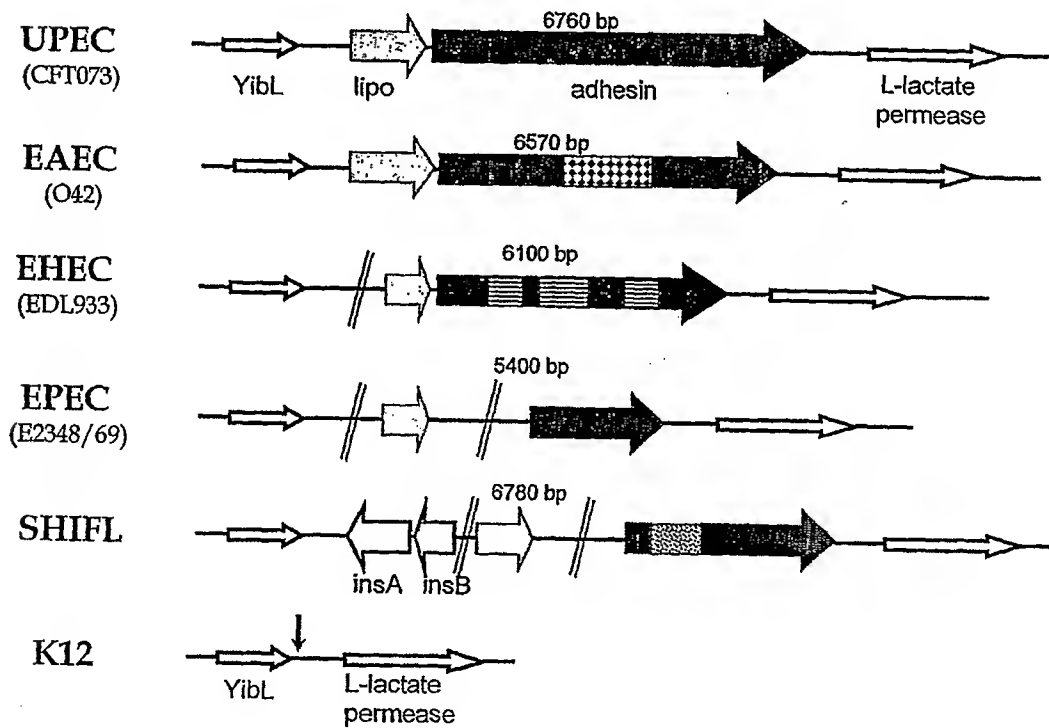


FIGURE 20



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FIGURE 18**FIGURE 19**

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FIGURE 21

FIGURE 21A

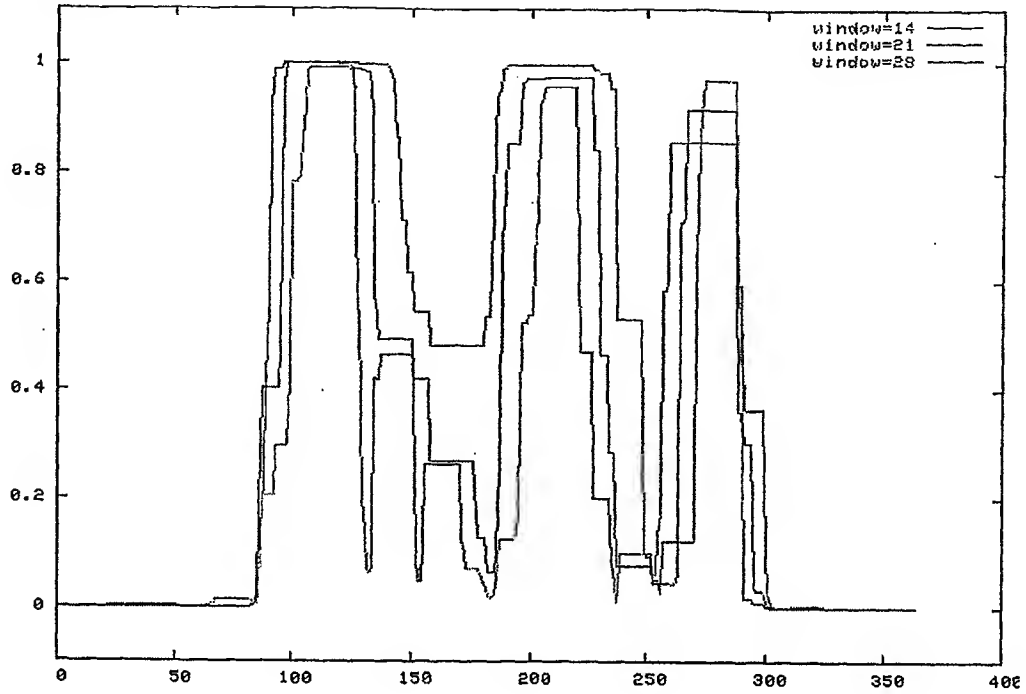


FIGURE 21B

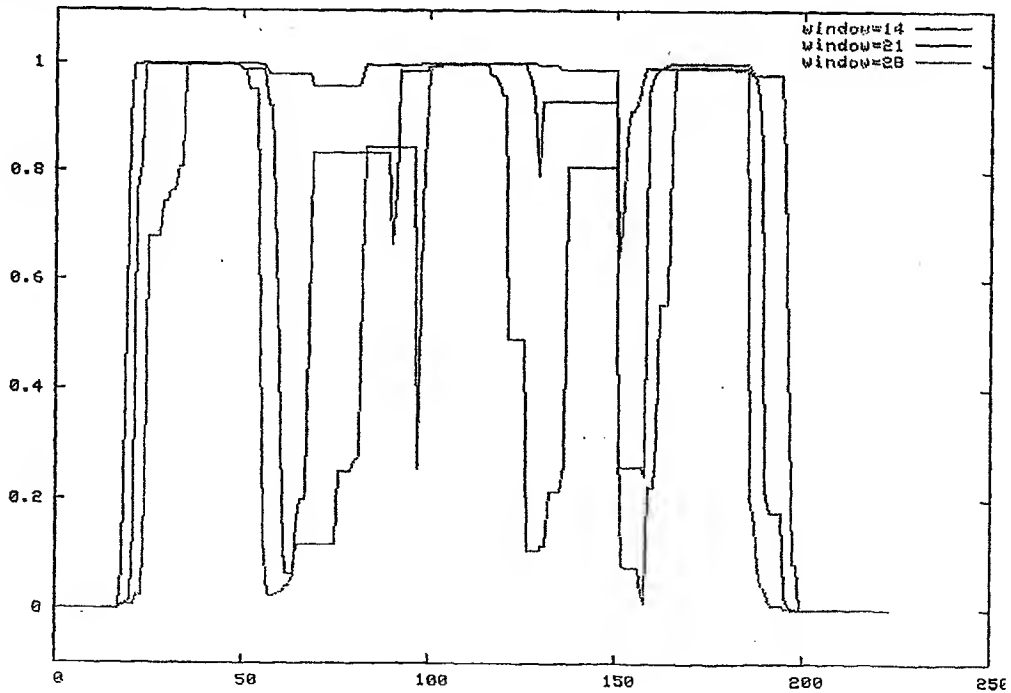
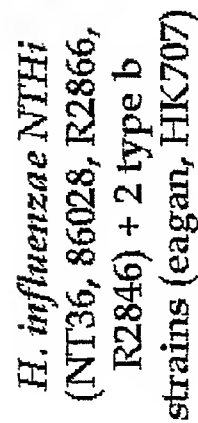
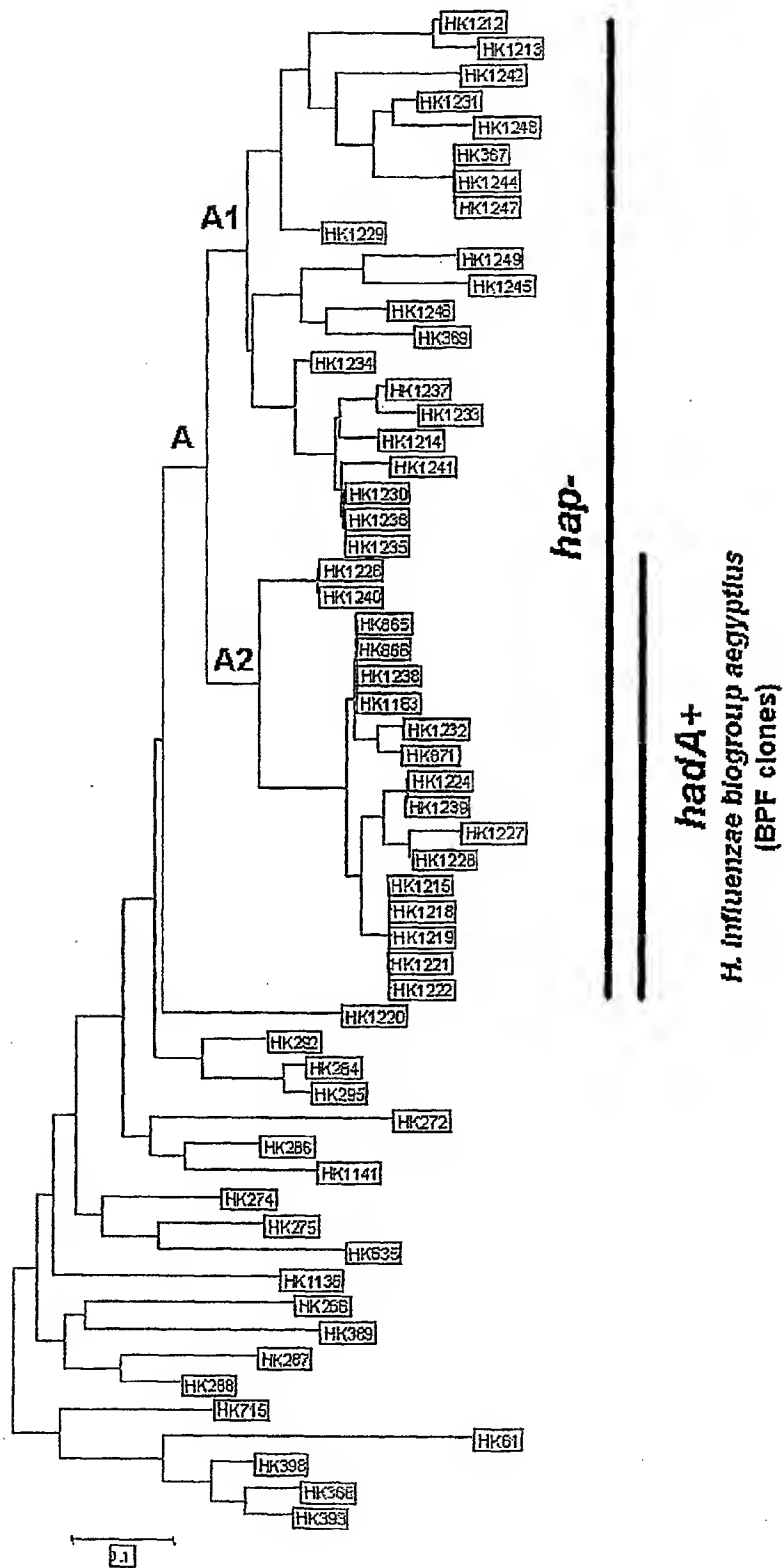


FIGURE 22

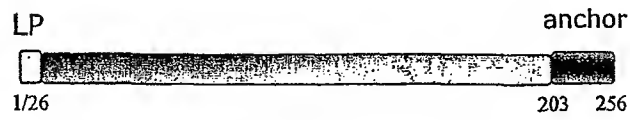
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FIGURE 23

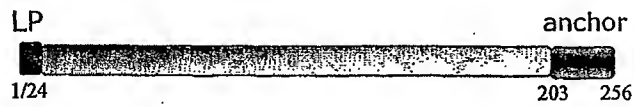


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FIGURE 24



HadA na

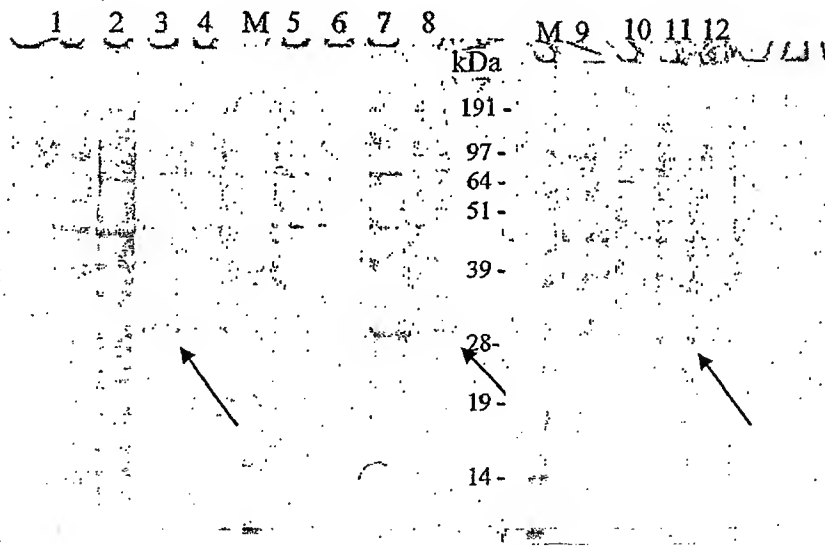


HadA LNadA na



HadA-His

FIGURE 25



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FIGURE 26

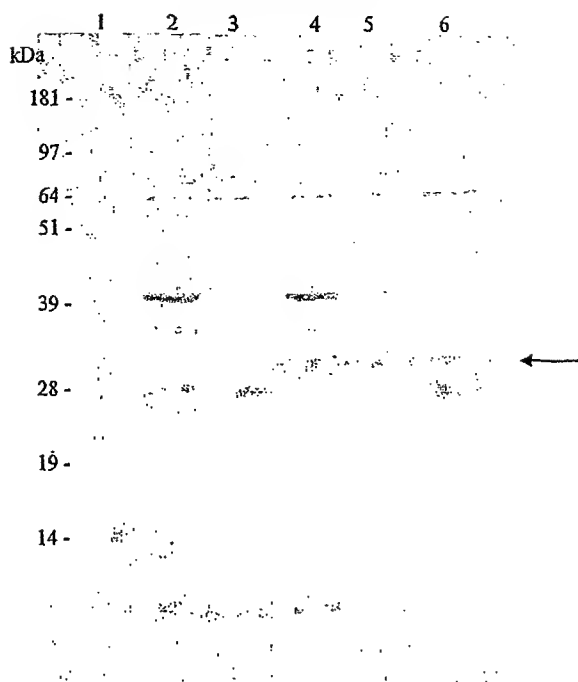


FIGURE 29

FIGURE 29A

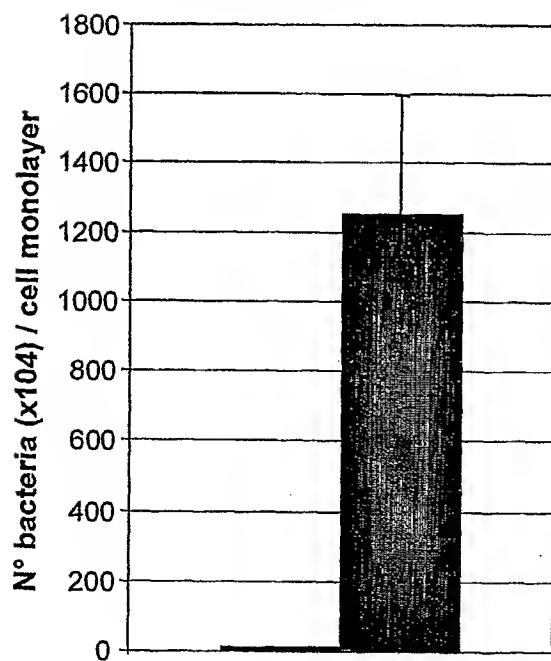
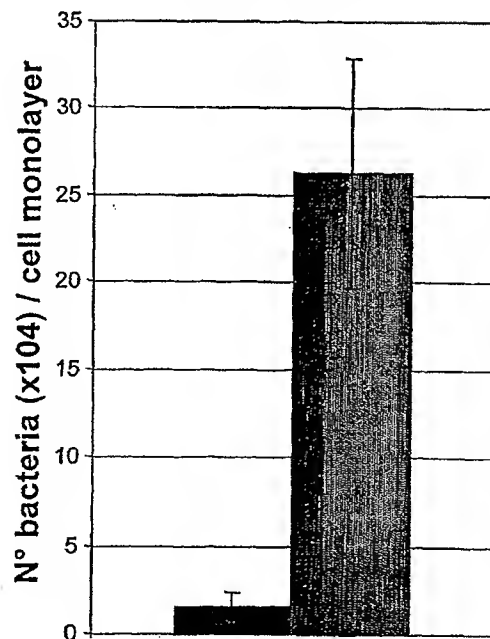
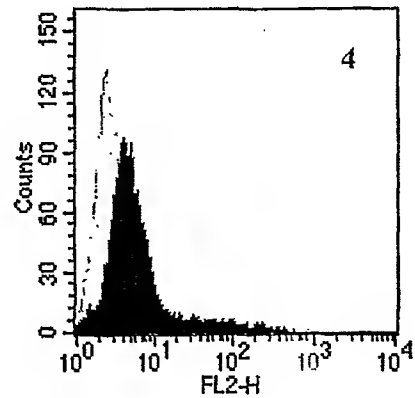
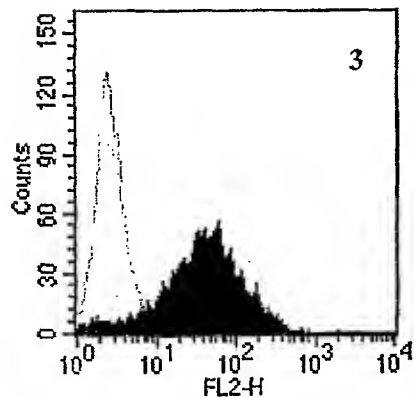
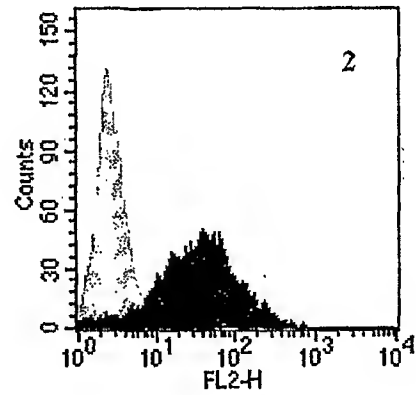
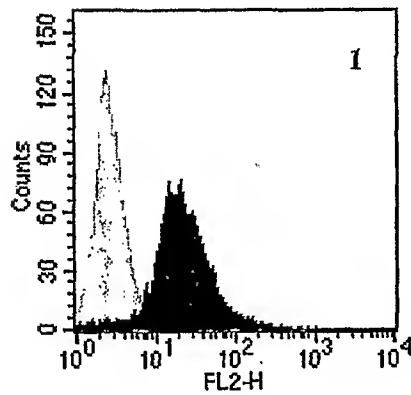
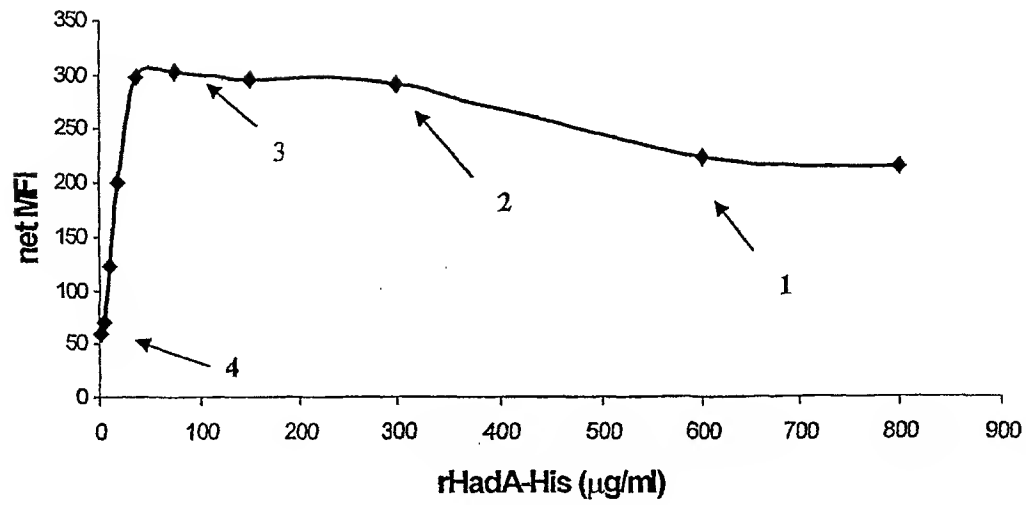


FIGURE 29B



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FIGURE 27

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FIGURE 28

FIGURE 28A

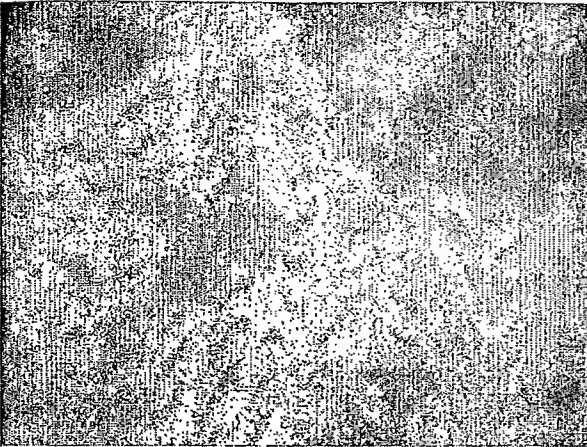


FIGURE 28B

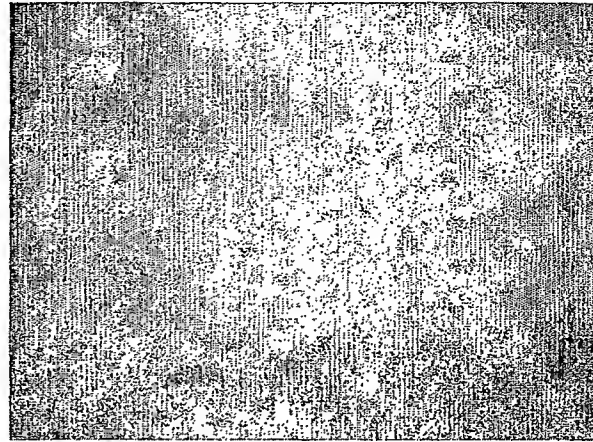


FIGURE 28C

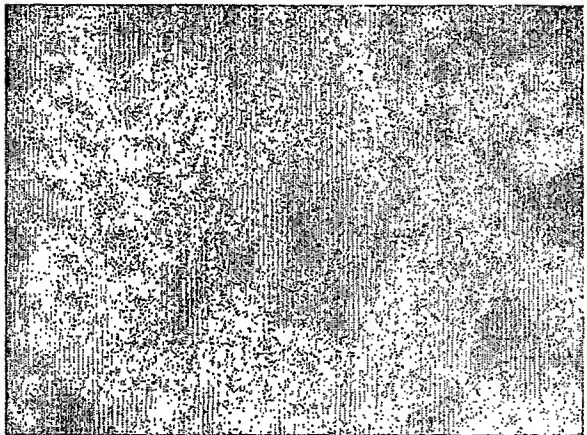


FIGURE 28D

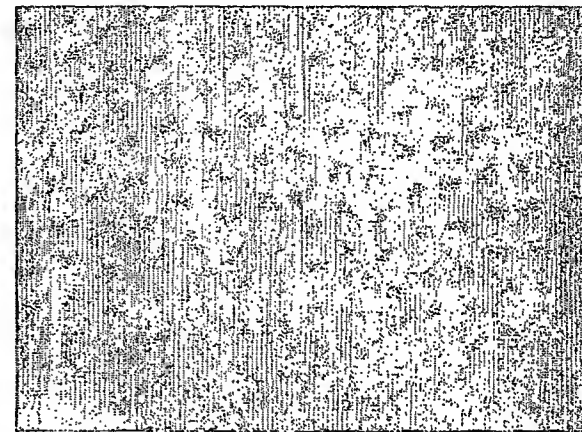


FIGURE 30



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FIGURE 31

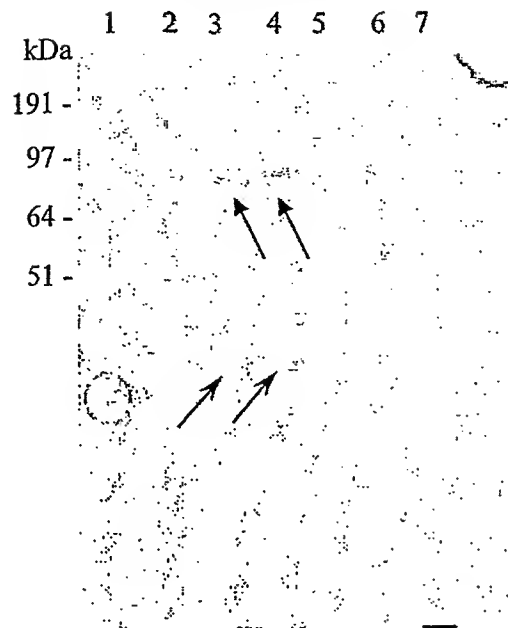
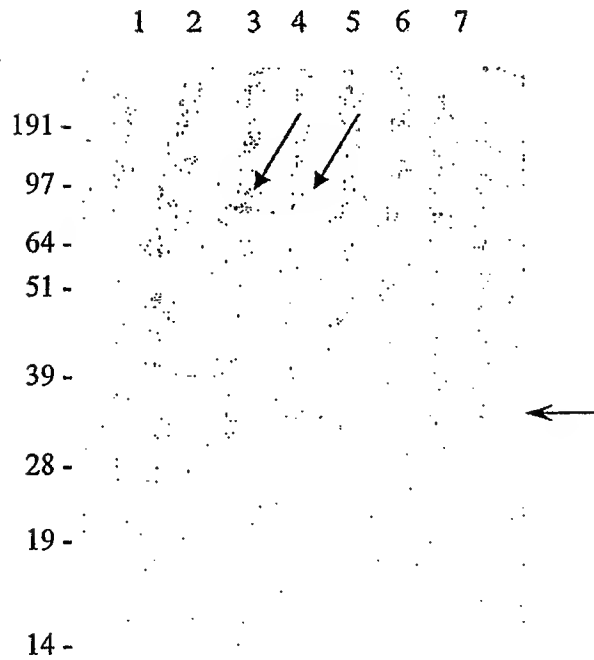


FIGURE 32



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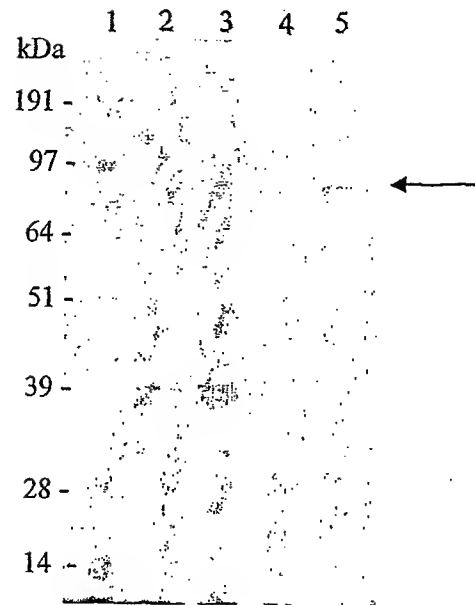
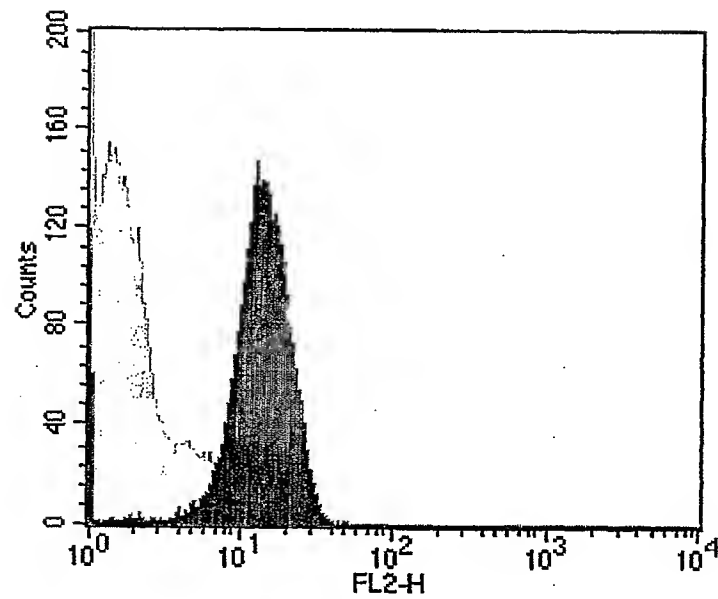
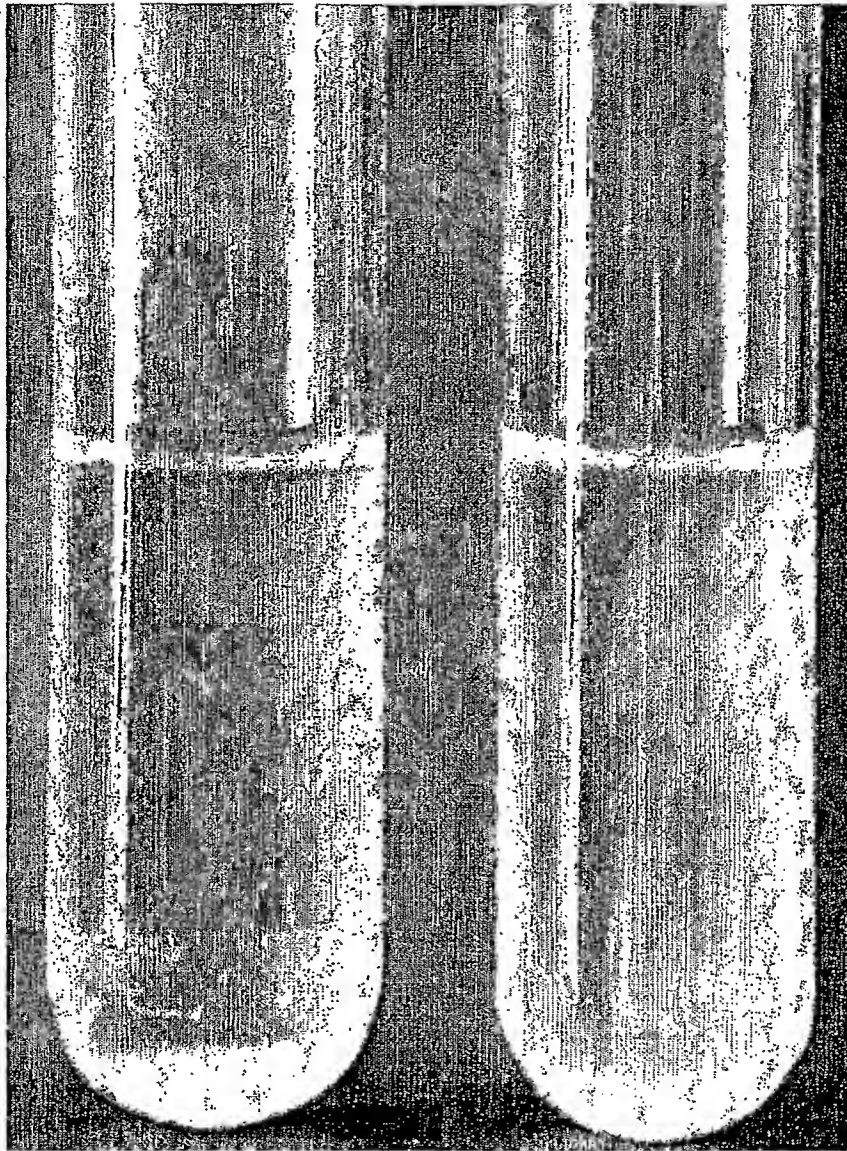
FIGURE 33**FIGURE 34**

FIGURE 35



HadA⁺

HadA⁻